BRUHATH BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of the Work: Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).

Name of the Agency : Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

REPORT FOR
The Executive Engineer
Project Division, Yelahanka Zone
Bruhat Bangalore Mahanagara Palike,

PROJECT MANAGEMENT CONSULTANTS

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Contractor/Agency : Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

Name of the Client :Executive Engineer,
Project Division, Yelahanka Zone
BBMP, Bangalore

Estimated Cost : Rs 10.00 Crore

Status of Bill : 1st and Part bill

In the Presence of : (a) Mr. Anjeneyalu B.R
Assistant Engineer, BBMP, Bangalore.
(b) Mr.Kiran .B
Assistant Executive Engineer, BBMP, Bangalore.
: (c) Mr.Tejashwagowda .M.C Site Engineer
M/s Tejus Consultants

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Sl. No	Discription of Item	Comments/observation
1	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge. (KPWD SR 2021-22, Volume-II, Item No.19.2.1, Page No.163)	Work done up to the billed quantity and quality is satisfactory
2	Demolishing stone rubble masonry In cement mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin- charge. (KPWD SR 2021-22, Volume-II, Item No.19.9.2, Page No.163)	Work done up to the billed quantity and quality is satisfactory

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3	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In Ordinary/Soft rock upto 300mm depth. (KPWD SR 2021-22, Volume-I, Item No.1.13, Page No.8)	Work done up to the billed quantity and quality is satisfactory
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (KPWD SR 2021-22, Volume-I, Item No.1.4.1, Page No.5)	Work done up to the billed quantity and quality is satisfactory
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (KPWD SR 2021-22, Volume-I, Item No.2.1.3, Page No.15)	Work done up to the billed quantity and quality is satisfactory
9	STonnes Providing Size Stone masonry (Available STonnes) with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Work done up to the billed quantity and quality is satisfactory

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10	Providing Coursed rubble masonry (first sort) with hard stone in foundation and plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KPWD SR 2021-22, Volume-II, Item No.5.2, Page No.9)	Work done up to the billed quantity and quality is satisfactory
11	Providing Coursed rubble masonry (Second sort) with hard stone in foundation and plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KPWD SR 2021-22, Volume-II, Item No.5.2, Page No.9)	Work done up to the billed quantity and quality is satisfactory
12	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)	Work done up to the billed quantity and quality is satisfactory
13	Providing and laying in position Reinforced cement concrete M20 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.2, Page No.17)	Work done up to the billed quantity and quality is satisfactory
14	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.13.1, Page No.99) Issue Rates as on 08.04.2022	Work done up to the billed quantity and quality is satisfactory
15	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2021-22,	Work done up to the billed quantity and quality is satisfactory

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	Volume-II, Item No.8.19.1, Page No.44)	
16	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting Each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (KPWD SR 2021-22, Volume-I, Item No.1.10, Page No.7)	Work done up to the billed quantity and quality is satisfactory
17	Removing & Restting of Kerb Stone (Approved Rate)	Work done up to the billed quantity and quality is satisfactory
18	Providing and fixing pre cast solid cement concrete kerb sTonnes made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (Approved Rate)	Work done up to the billed quantity and quality is satisfactory
19	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (KPWD SR 2021-22, Volume-III, Item No.8.10, Page No.56)	Work done up to the billed quantity and quality is satisfactory
20	Construction of Median and Island with Soil Taken from Bore Areas Construction of median and Island above road level with approved material brought from borrow pits, spread, sloped and compacted as per clause 408. (KPWD SR 2021-22, Volume-III, Item No.4.30, Page No.25)	Work done up to the billed quantity and quality is satisfactory
21	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (KWPD 2021-22, V-III, Item No.4.27, Page No.24)	Work done up to the billed quantity and quality is satisfactory
22	Providing and laying Cement concrete pavement with 1:2:4 for commercial & residential building floors, hardpaths, footpaths using 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size, including finishing complete as per Engineer incharge. (KPWD SR 2021-22, Volume-II, Item No.9.4, Page No.59)	Work done up to the billed quantity and quality is satisfactory

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23	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge. (KPWD SR 2021-22, Volume-II, Item No.9.2, Page No.59)	Work done up to the billed quantity and quality is satisfactory
24	Providing, laying & fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (KPWD SR 2021-22, Volume-II, Item No.9.40, Page No.65)	Work done up to the billed quantity and quality is satisfactory
25	Fabricating,providing and erecting in position of MS Hot Dip galvanised SqHollow poles of 132x132 Heavy Guage of length 3000mm with MS.Hot Dip Galvanized grill work as per approved design and drawing of chief architect using 12*25mm galvanized flat for alround frame and 20mm*20mm galvanized forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom.The work is inclusive of throughing flat,square rods,placing welding all the joints,including grinding finishing 2 coats of anticorrosive paint over one coat of metal primer.The rate is inclusive of all material like MS Hollow galvanized pipe,flat,forged square rods,cost of labour for all items of work cost painting,welding,grinding with all lead and lift as per specification including loading with cost and conveyance of all materials labour machinery and incidental charges for the successful complete of the work as per the direction engineer incharge of the work.	Work done up to the billed quantity and quality is satisfactory

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26	Fabrication, providing and erecting in position Hot dip galvanised Gate using 72 x72 x 4mm Sq. GI Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised Sq. rod for verticals at 150mm c/c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq rods, GI gorged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for Each flop. Heavy duty locking arrangements at two places including cost of labour, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer-in-charge of the work.	Work done up to the billed quantity and quality is satisfactory
27	Removing & Resetting of Cobble Stone (Approved Rate)	Work done up to the billed quantity and quality is satisfactory
28	Providing and laying heavy duty cobble sTonnes 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 30Mpa as per IRC SP 63:2018 & IS 15658 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications (KWPD 2021-22, V-II, Item No.9.31, Page No.64)	Work done up to the billed quantity and quality is satisfactory
29	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete. (KWPD 2021-22, V-II, Item No.7.35, Page No.26)	Work done up to the billed quantity and quality is satisfactory
30	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.33.3, Page No.47)	Work done up to the billed quantity and quality is satisfactory

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31	Providing & fixing precast Bollards of size 150mm dia 0.90m height made of M25 Reinforced Cement concrete it includes TMT steel, PCC 1:3:6 for fixing and cost of enamel paint and including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge (Approved Rate)	Work done up to the billed quantity and quality is satisfactory
32	Executive Bench: Made out of Sadarahally Grey Stone with hand supporters with 3 line finishing witharch Design with 100mm SLAB Height 90 x Length 150 x Width 45 Cms.	Work done up to the billed quantity and quality is satisfactory
33	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (KPWD SR 2021-22, Volume-III, Item No.1.1 A, Page No.3) (Rs.118.00 per Cum) Cost of Haulage Excluding Loading and Unloading Case-1 : Surfaced Road Taking output 10 t load and lead 10 km = 100 t.km (KPWD SR 2021-22, Volume-III, Item No.1.4 A, Page No.3) (Rs.12.00 per t.km)	Work done up to the billed quantity and quality is satisfactory
34	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)	Work done up to the billed quantity and quality is satisfactory
35	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.9, Page No.15)	Work done up to the billed quantity and quality is satisfactory

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36	Providing and laying in position Reinforced cement concrete M25 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)	Work done up to the billed quantity and quality is satisfactory
38	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17) FOR PLINTH BEAM, LIMTEL, ROOF BEAM & ROOF SLAB (GROUND FLOOR)	Work done up to the billed quantity and quality is satisfactory
44	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(KWPD 2021-22, V-II, Item No.11.32, Page No.84) GROUND FLOOR	Work done up to the billed quantity and quality is satisfactory

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48	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17) FIRST FLOOR	Work done up to the billed quantity and quality is satisfactory
90	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (P.No. 63, I.No. 9.23 of PWP & IWTD SR 2021-22) GROUND FLOOR	Work done up to the billed quantity and quality is satisfactory
92	Providing and fixing Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KWPD 2021-22, V-II, Item No.11.25.2, Page No.82)	Work done up to the billed quantity and quality is satisfactory

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93	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for Brick/Rcc/stone walls & coloumns/ beams with necessary aluminium frame works at required level made out of 50x25x4mm C section or equivalent. The panel should consist of 3mm thick non-halogenated FR grade mineral based polymer (2 hrs fire resistance as per ASTM E119-12 and clause B, S1, do as per ENT 13501-1sandwiched between 0.50 skins thick aluminium sheet making a total panel thickness of 4mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done with necessary rods etc., complete (KWPD 2021-22, V-II, Item No.10.15.1, Page No.71)	Work done up to the billed quantity and quality is satisfactory
94	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.28, Page No.83)	Work done up to the billed quantity and quality is satisfactory
221	4 Seater Student Desk Heavy Fabricated Frame with 18mm pre laminated board top complete as per specification and the directions of Engineer-in-charge	Work done up to the billed quantity and quality is satisfactory

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